

Query Match 19.5%; Score 66; DB 4; Length 40;
 Best Local Similarity 39.4%; Pred. No. 0.41;
 Matches 13; Conservative 2; Mismatches 16; Indels 16; Gaps 1;
 Y 27 GCPFNAGCHRHCKSIIRRGFGCGTFTTCVC 59
 b 8 GTGINSACAAHCLLRNGRGYCG--KGVCVC 38

RESULT 9
 S-09-103-489-20
 Sequence 20, Application US/09103489
 Patent No. 6215048
 GENERAL INFORMATION:
 APPLICANT: Liang, Jihong
 APPLICANT: Shah, Dilip M.
 APPLICANT: Wu, Yonnie S.
 APPLICANT: Rosenberger, Cindy A.
 TITLE OF INVENTION: Antifungal Polypeptide and Methods for
 NUMBER OF INVENTION: Controlling Plant Pathogenic Fungi
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Charles E. Cohen, Monsanto Company, B84F
 STREET: 700 Chesterfield Village Parkway No. 6215048th
 CITY: St. Louis
 STATE: Missouri
 COUNTRY: USA
 ZIP: 63198

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/103,489
 FILING DATE: 24-JUN-1998
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Cohen, Charles E.
 REGISTRATION NUMBER: 34,565
 REFERENCE/DOCKET NUMBER: 38-21 (10700)A
 TELEPHONE: (314) 537-6224
 TELEFAX: (314) 537-6047
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 80 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 -09-103-489-20

Query Match 19.0%; Score 64.5; DB 3; Length 80;
 Best Local Similarity 30.0%; Pred. No. 1.2;
 Matches 21; Conservative 9; Mismatches 27; Indels 13; Gaps 4;
 4 IAIIFIVLVAFCIL-DGIVEAGFGCPFNAG-----KCHRHCKSIIR-RGGFGCG 51
 8 IALLFAVLVFAAFETMVEAQKLCRPSGTWGSVCNNACKNQCNLEKARHGSNY 67

52 TPTT-TCVCY 60
 68 VFPAAHKICY 77

SULT 10
 -09-442-631-4
 Sequence 4, Application US/09442631
 Patent No. 6300489
 GENERAL INFORMATION:
 APPLICANT: OH, BOUNG-JUN

APPLICANT: KO, MOON KYUNG
 APPLICANT: SHIN, BYONGCHUL
 APPLICANT: CHUNG, CHANG HO
 TITLE OF INVENTION: SMALL AND CYSTEINE RICH ANTIFUNGAL DEFENSIN AND
 TITLE OF INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE
 FILE REFERENCE: 1942/44
 CURRENT APPLICATION NUMBER: US/09/442,631
 CURRENT FILING DATE: 1999-11-18
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: Patent In Ver. 2.0
 SEQ ID NO 4
 LENGTH: 74
 TYPE: PRT
 ORGANISM: Capsicum annuum
 US-09-442-631-4

Query Match 18.9%; Score 64; DB 4; Length 74;
 Best Local Similarity 35.8%; Pred. No. 1.3;
 Matches 24; Conservative 8; Mismatches 23; Indels 12; Gaps 5;
 QY 2 KSTAIPIVLVAFCL-ILDGIVEAGFGCPFN-AGKC--HRHCKSIIRRGFGCGT--- 52
 DB 6 KWATIFLMKVATDMAEAKICEALSG---NFKGLCLSLSDCGNVCRRRGFTDGSIG 62
 QY 53 FRTTCVC 59
 DB 63 ERLOCF 69

RESULT 11
 US-08-454-455-4
 Sequence 4, Application US/08454455
 Patent No. 5635601
 GENERAL INFORMATION:
 APPLICANT: Moyle, Matthew
 APPLICANT: McLean, John W.
 TITLE OF INVENTION: NOVEL BETA INTEGRIN SUBUNIT
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 720 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPatIn (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/454,455
 FILING DATE: 30-May-1995
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/193989
 FILING DATE: 09-FEB-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/004142
 FILING DATE: 13-JAN-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/670607
 FILING DATE: 14-MAR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Lee, Wendy M.
 REGISTRATION NUMBER: 00,000
 REFERENCE/DOCKET NUMBER: P0699C2D2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-1994
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
X-M protein - protein search, using sw model
Run on: October 15, 2003, 19:01:05 ; Search time 17 Seconds
(without alignments)
151.821 Million cell updates/sec
Title: US-09-829-481-4
Perfect score: 339
Sequence: 1 MKSIAIFIVLVAFCILEDG.....IRRRGFCRGFTFTTCVCYR 61
Coring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 328717 seqs, 42310858 residues

otal number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	177	52.2	38	4	US-09-030-619-200
2	133.5	39.4	38	4	US-09-030-619-199
3	69	20.4	131	4	US-09-252-991A-32090
4	68.5	20.2	172	4	US-09-003-198A-17
5	68	20.1	40	4	US-09-030-619-198
6	66	19.5	40	1	US-08-385-375-16
7	66	19.5	40	1	US-08-385-375-39
8	66	19.5	40	4	US-09-030-619-217
9	64.5	19.0	80	3	US-09-103-489-20
10	64	18.9	74	4	US-09-442-631-4
11	63.5	18.7	768	1	US-08-454-455-4
12	63.5	18.7	769	1	US-08-454-455-6
13	61.5	18.1	80	1	US-08-377-687-49
14	61.5	18.1	80	2	US-08-777-132-49
15	61.5	18.1	80	3	US-08-971-982-49
16	60.5	17.8	81	3	US-09-053-021-4
17	60.5	17.8	81	3	US-09-053-021-9
18	60.5	17.8	652	2	US-08-751-305-2
19	60	17.7	79	1	US-08-627-706-15
20	60	17.7	79	3	US-09-103-489-15
21	59.5	17.6	42	2	US-08-751-305-3
22	59.5	17.6	63	4	US-09-030-619-232
23	59.5	17.6	80	1	US-08-377-687-59
24	59.5	17.6	80	2	US-08-777-132-59
25	59.5	17.6	80	3	US-08-971-982-59
26	59.5	17.6	92	4	US-09-394-630-2
27	59	17.4	197	4	US-09-886-319A-81

28 59 17.4 204 1 US-08-652-859-2 Sequence 2, Appli
29 59 17.4 204 2 US-08-919-706-2 Sequence 2, Appli
30 59 17.4 204 2 US-09-153-751-2 Sequence 2, Appli
31 59 17.4 204 4 US-09-886-319A-38 Sequence 38, Appli
32 59 17.4 228 4 US-09-886-319A-45 Sequence 45, Appli
33 58.5 17.3 75 1 US-08-289-458-2 Sequence 2, Appli
34 58.5 17.3 75 2 US-08-761-549-2 Sequence 2, Appli
35 58.5 17.3 75 3 US-09-127-646-2 Sequence 1, Appli
36 57.5 17.0 221 2 US-08-925-708-1 Sequence 1, Appli
37 57 16.8 86 1 US-08-149-839B-14 Sequence 14, Appli
38 57 16.8 86 1 US-08-451-568-14 Sequence 14, Appli
39 57 16.8 86 2 US-08-451-566-14 Sequence 14, Appli
40 57 16.8 86 2 US-08-777-113-14 Sequence 14, Appli
41 57 16.8 86 4 US-09-298-574-14 Sequence 14, Appli
42 57 16.8 1394 6 5177197-30 Patent No. 5177197
43 57 16.8 1400 4 US-08-630-915A-37 Sequence 37, Appli
44 56.5 16.7 80 3 US-08-952-383A-14 Sequence 14, Appli
45 56.5 16.7 80 4 US-08-970-264A-27 Sequence 27, Appli

ALIGNMENTS

RESULT 1

US-09-030-619-200

; Sequence 200, Application US/09030619B

; Patent No. 6503881

; GENERAL INFORMATION:

; APPLICANT: Krieger, Timothy J.

; APPLICANT: Taylor, Robert

; APPLICANT: Erfile, Douglas

; APPLICANT: Fraser, Janet R.

; APPLICANT: West, Michael H.P.

; APPLICANT: Monicool, Patricia J.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING

; TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION

; FILE OF INVENTION: WITH ANTI-BIOTICS

; FILE REFERENCE: 660081.406

; CURRENT APPLICATION NUMBER: US/09/030,619B

; CURRENT FILING DATE: 1998-02-25

; NUMBER OF SEQ ID NOS: 232

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 200

; LENGTH: 38

; TYPE: PRT

; ORGANISM: Leiurus quinquestratus

US-09-030-619-200

Query Match 52.2%; Score 177; DB 4; Length 38;

Best Local Similarity 73.0%; Pred. No. 6.3e-14;

Matches 27; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 25 GFGCPNAGKCHHCKHSIRRGFGCGFTFTTCVCYR 61

||||| | | | | | | | | | | | | | | | | | | | |

Db 1 GFGCPNAGKCHHCKHSIRRGFGCGFTFTTCVCYR 37

RESULT 2

US-09-030-619-199

; Sequence 199, Application US/09030619B

; Patent No. 6503881

; GENERAL INFORMATION:

; APPLICANT: Krieger, Timothy J.

; APPLICANT: Taylor, Robert

; APPLICANT: Erfile, Douglas

; APPLICANT: Fraser, Janet R.

; APPLICANT: West, Michael H.P.

; APPLICANT: Monicool, Patricia J.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING

; TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION

; FILE OF INVENTION: WITH ANTI-BIOTICS

; FILE REFERENCE: 660081.406

; CURRENT APPLICATION NUMBER: US/09/030,619B

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CURRENT FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 232
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 199
LENGTH: 38
TYPE: PRT
ORGANISM: Aeschna cyanea
S-09-030-619-199

Query Match      39.4%; Score 133.5; DB 4; Length 38;
Best Local Similarity 55.3%; Pred. No. 6.5e-09;
Matches 21; Conservative 6; Mismatches 10; Indels 1; Gaps 1;

Y 25 GFCGPNAGKCHHCKSIR-RGGFCRGFTTCVYR 61
|||||:|||||:|||||:|||||:|||||:|||||:
b 1 GFGCPLDQOCHRHCTITGRSGGYCSGLKLTCTYR 38

RESULT 3
S-09-252-991A-32090
Sequence 32090, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 32090
LENGTH: 131
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
S-09-252-991A-32090

Query Match      20.4%; Score 69; DB 4; Length 131;
Best Local Similarity 36.2%; Pred. No. 0.6;
Matches 17; Conservative 3; Mismatches 21; Indels 6; Gaps 2;

Y 15 CILEDGIVEAGFCGPPNAGK----HRHCKSIRRGFCRGFTTC 57
| | | | | : | | | | | : | | | | | : | | | | | :
b 23 CALPAGRASSGTGCTAPRCCAGAGSCHRRRSGS--RARTRPAC 67

RESULT 4
S-09-003-198A-17
Sequence 17, Application US/09003198A
Patent No. 6316407
GENERAL INFORMATION:
APPLICANT: Liang, Jihong
APPLICANT: Shah, Dilip Maganlal
APPLICANT: Wu, Yennie S.
APPLICANT: Rosenberger, Cindy A.
APPLICANT: Hakimi, Salim
TITLE OF INVENTION: Antifungal polypeptide and Methods for
TITLE OF INVENTION: Controlling Plant Pathogenic Fungi
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/003,198A
; FILING DATE: 07-JAN-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:193
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 72 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-003-198A-17

Query Match      20.2%; Score 68.5; DB 4; Length 72;
Best Local Similarity 28.4%; Pred. No. 0.38;
Matches 19; Conservative 11; Mismatches 24; Indels 13; Gaps 3;

QY 2 KSIATITIVLVAFCILEDGIVEAGFCGPPNAGK-----CHRHCKSIRRG---GFCR 50
| | | | | : | | | | | : | | | | | : | | | | | :
DB 4 KSLACLFLLLVLFVAQETVVSEANTCENLAGSKYGVCGGCDRHCT--QEGAISGRCR 61
| | | | | : | | | | | : | | | | | : | | | | | :
QY 51 GTFRTTC 57
| | |
DB 62 DDFRCWC 68

RESULT 5
US-09-030-619-198
Sequence 198, Application US/09030619B
Patent No. 6503881
GENERAL INFORMATION:
APPLICANT: Krieger, Timothy J.
APPLICANT: Taylor, Robert
APPLICANT: Erfle, Douglas
APPLICANT: Fraser, Janet R.
APPLICANT: West, Michael H.P.
APPLICANT: McNicol, Patricia J.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION
TITLE OF INVENTION: WITH ANTIBIOTICS
FILE REFERENCE: 660081.406
CURRENT APPLICATION NUMBER: US/09/030,619B
CURRENT FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 232
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 198
LENGTH: 40
TYPE: PRT
ORGANISM: Sacrophaga peregrina
US-09-030-619-198

Query Match      20.1%; Score 68; DB 4; Length 40;
Best Local Similarity 39.4%; Pred. No. 0.24;
Matches 13; Conservative 2; Mismatches 16; Indels 2; Gaps 1;

QY 27 GCFPNAGKCHHCKSIRRGFCRGFTTCVCV 59
| | | | | : | | | | | : | | | | | :
DB 8 GTGINHSAACAAHCLIRGNRGYGCNG--KAVCVC 38

RESULT 6
US-08-385-375-16
Sequence 16, Application US/08385375
Patent No. 5631144
GENERAL INFORMATION:
APPLICANT: LEMOINE, Yves
```

APPLICANT: NGUYEN, Martine
 APPLICANT: ACHSTETTER, Tilman
 APPLICANT: REICHART, Jean-Marc
 TITLE OF INVENTION: APPLICATION OF NOVEL DNA FRAGMENTS AS A
 TITLE OF INVENTION: SEQUENCE CODING FOR A SIGNAL PEPTIDE FOR THE SECRETION OF
 TITLE OF INVENTION: MATURE PROTEINS BY RECOMBINANT YEASTS, EXPRESSION
 TITLE OF INVENTION: CASSETTES, TRANSFORMED YEASTS AND CORRESPONDING PROCESS FOR
 TITLE OF INVENTION: THE PREPARATION OF PROTEINS
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Burns, Doane, Swecker & Mathis
 STREET: P.O. Box 1404
 CITY: Alexandria
 STATE: Virginia
 COUNTRY: United States
 ZIP: 22313-1404
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/08/385,375
 FILING DATE: 27-APR-1990
 CLASSIFICATION: 435
 PRIOR APPLICATION NUMBER: US 08/178,356
 FILING DATE: 04-JAN-1994
 APPLICATION NUMBER: FR 89/05687
 FILING DATE: 28-APR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: WO PCT/FR90/00306
 FILING DATE: 27-APR-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Crane-Feury, Sharon E
 REGISTRATION NUMBER: 36,113
 REFERENCE/DOCKET NUMBER: 017753-009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 836-6620
 TELEFAX: (703) 836-2021
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 40 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 S-08-385-375-16

Query Match 19.5%; Score 66; DB 1; Length 40;
 Best Local Similarity 39.4%; Pred. No. 0.41;
 Matches 13; Conservative 2; Mismatches 16; Indels 2; Gaps 1;

Y 27 GCPFNAGKCHRHCKSIRRGCGTFTTCVC 59
 b 8 GTGINHSAHAHCLLRNGRGYCN--KGVCVC 38

RESULT 7
 S-08-385-375-39
 Sequence 39, Application US/08385375
 Patent No. 5631144
 GENERAL INFORMATION:
 APPLICANT: LEMOINE, Yves
 APPLICANT: NGUYEN, Martine
 APPLICANT: ACHSTETTER, Tilman
 APPLICANT: REICHART, Jean-Marc
 TITLE OF INVENTION: APPLICATION OF NOVEL DNA FRAGMENTS AS A
 TITLE OF INVENTION: SEQUENCE CODING FOR A SIGNAL PEPTIDE FOR THE SECRETION OF
 TITLE OF INVENTION: MATURE PROTEINS BY RECOMBINANT YEASTS, EXPRESSION
 TITLE OF INVENTION: CASSETTES, TRANSFORMED YEASTS AND CORRESPONDING PROCESS FOR
 NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Burns, Doane, Swecker & Mathis
 STREET: P.O. Box 1404
 CITY: Alexandria
 STATE: Virginia
 COUNTRY: United States
 ZIP: 22313-1404
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/08/385,375
 FILING DATE: 27-APR-1990
 CLASSIFICATION: 435
 PRIOR APPLICATION NUMBER: US 08/178,356
 FILING DATE: 04-JAN-1994
 APPLICATION NUMBER: FR 89/05687
 FILING DATE: 28-APR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: WO PCT/FR90/00306
 FILING DATE: 27-APR-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Crane-Feury, Sharon E
 REGISTRATION NUMBER: 36,113
 REFERENCE/DOCKET NUMBER: 017753-009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 836-6620
 TELEFAX: (703) 836-2021
 INFORMATION FOR SEQ ID NO: 39:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 40 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-385-375-39

Query Match 19.5%; Score 66; DB 1; Length 40;
 Best Local Similarity 39.4%; Pred. No. 0.41;
 Matches 13; Conservative 2; Mismatches 16; Indels 2; Gaps 1;

QY 27 GCPFNAGKCHRHCKSIRRGCGTFTTCVC 59
 Db 8 GTGINHSAHAHCLLRNGRGYCN--KGVCVC 38

RESULT 8
 US-09-030-619-217
 Sequence 217, Application US/09030619B
 Patent No. 6503881
 GENERAL INFORMATION:
 APPLICANT: Krieger, Timothy J.
 APPLICANT: Taylor, Robert
 APPLICANT: Erile, Douglas
 APPLICANT: Fraser, Janet R.
 APPLICANT: West, Michael H.P.
 APPLICANT: McNicol, Patricia J.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
 TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION
 TITLE OF INVENTION: WITH ANTIBIOTICS
 FILE REFERENCE: 660081.406
 CURRENT APPLICATION NUMBER: US/09/030,619B
 CURRENT FILING DATE: 1998-02-25
 NUMBER OF SEQ ID NOS: 232
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 217
 LENGTH: 40
 TYPE: PRT
 ORGANISM: Phormia'terronovae
 US-09-030-619-217

APPLICANT: BROEKAERT, WILLEM F.
APPLICANT: CAMMUE, BRUNO P.A.
APPLICANT: OSBORN, RUPERT W.
APPLICANT: REES, SARAH B.
APPLICANT: TERRAS, FRANKY R.G.
APPLICANT: VANDERLEYDEN, JOZEF
TITLE OF INVENTION: BIOCIDAL PROTEINS
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DARBY & CUSHMAN
STREET: 1100 NEW YORK AVENUE, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/777,192
FILING DATE:
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/002,480
FILING DATE: 04-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: KOKULIS, PAUL N.

REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944

INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:
LENGTH: 80 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

3-08-777-192-49

Query Match 18.1%; Score 61.5; DB 2; Length 80;
Best Local Similarity 30.0%; Pred. No. 2.7;
Matches 21; Conservative 8; Mismatches 28; Indels 13; Gaps 4;

Y 4 IAIIFIVIVAFPILE-DGIVEAGFCPPFNAG-----KCHRHCKSIRR-RGGFCRG 51
D 8 IALLFAALVLFAPFAEPTMVEAOKLCERPSTGWSVCGNNNACKNOCINLEKARHGS 67

Y 52 TFRF-TVCY 60
D 68 VFAHKCICY 77

3-08-971-982-49

Sequence 49, Application US/08971982
Patent No. 6187904
GENERAL INFORMATION:
APPLICANT: BROEKAERT, WILLEM F.
CAMMUE, BRUNO P.A.
OSBORN, RUPERT W.
REES, SARAH B.
TERRAS, FRANKY R.G.
VANDERLEYDEN, JOZEF

TITLE OF INVENTION: BIOCIDAL PROTEINS

NUMBER OF SEQUENCES: 59

CORRESPONDENCE ADDRESS:

ADDRESSEE: CUSHMAN DARBY & CUSHMAN
STREET: 1100 NEW YORK AVENUE, N.W.
CITY: WASHINGTON
STATE: D.C.

COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/971,982
FILING DATE: 17-No. 6187904-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/002,480
FILING DATE: 04-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: KOKULIS, PAUL N.
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 80 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-08-971-982-49

Query Match 18.1%; Score 61.5; DB 3; Length 80;
Best Local Similarity 30.0%; Pred. No. 2.7;
Matches 21; Conservative 8; Mismatches 28; Indels 13; Gaps 4;

QY 4 IAIIFIVIVAFPILE-DGIVEAGFCPPFNAG-----KCHRHCKSIRR-RGGFCRG 51
DB 8 IALLFAALVLFAPFAEPTMVEAOKLCERPSTGWSVCGNNNACKNOCINLEKARHGS 67

QY 52 TFRF-TVCY 60
DB 68 VFAHKCICY 77

Search completed: October 15, 2003, 19:21:12
Job time : 18 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

protein - protein search, using sw model

run on: October 15, 2003, 19:18:40 : Search time 27 Seconds

(without alignments)
364.031 Million cell updates/sec

title: US-09-829-481-4

effect score: 339

sequence: 1 MXSIAIIVLVAFCEIDG.....IRRGGFCRGTTCVCR 61

scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 600653 seqs, 161128416 residues

total number of hits satisfying chosen parameters: 600653

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Published Applications: AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pdb.*
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- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pdb.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pdb.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pdb.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pdb.*
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- 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pdb.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pdb.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pdb.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pdb.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pdb.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pdb.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pdb.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pdb.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pdb.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	339	100.0	61	9	US-09-829-481-4
2	184	54.3	37	9	US-09-829-481-11
3	184	54.3	37	9	US-09-917-340-57
4	177	52.2	38	9	US-09-030-619-200
5	168	49.6	60	9	US-09-829-481-6
6	168	49.6	60	9	US-09-829-481-8
7	148.5	43.8	55	9	US-09-829-481-10
8	148	43.7	61	9	US-09-829-481-2
9	133.5	39.4	38	9	US-09-030-619-199
10	128	37.8	38	9	US-09-917-340-58
11	114	33.6	35	9	US-09-917-340-74
12	85.5	25.2	77	15	US-10-178-213-398
13	84.5	24.9	98	10	US-09-950-933A-50
14	76	22.4	75	15	US-10-178-213-401
15	71.5	21.1	43	9	US-09-917-340-94

16	71	20.9	79	15	US-10-178-213-293	Sequence 293, Appl
17	70.5	20.8	78	9	US-09-917-340-54	Sequence 54, Appl
18	70.5	20.8	78	9	US-09-917-340-55	Sequence 55, Appl
19	70	20.6	75	11	US-09-805-6948-6	Sequence 6, Appl
20	69	20.4	77	15	US-10-178-213-308	Sequence 308, Appl
21	68.5	20.2	78	15	US-10-178-213-314	Sequence 314, Appl
22	68.5	20.2	72	15	US-10-010-731-17	Sequence 17, Appl
23	68	20.1	40	9	US-09-030-619-198	Sequence 198, Appl
24	68	20.1	88	15	US-10-072-602B-71	Sequence 71, Appl
25	68	20.1	88	15	US-10-072-602B-74	Sequence 74, Appl
26	68	20.1	88	15	US-10-072-602B-77	Sequence 77, Appl
27	68	20.1	90	15	US-10-072-602B-68	Sequence 68, Appl
28	67.5	19.9	76	15	US-10-178-213-92	Sequence 92, Appl
29	66.5	19.6	86	15	US-10-264-480-22	Sequence 22, Appl
30	66	19.5	40	9	US-09-030-619-217	Sequence 217, Appl
31	66	19.5	78	15	US-10-178-213-86	Sequence 86, Appl
32	66	19.5	88	15	US-10-072-602B-80	Sequence 80, Appl
33	66	19.5	88	15	US-10-072-602B-83	Sequence 83, Appl
34	64.5	19.0	49	15	US-10-178-213-93	Sequence 93, Appl
35	64.5	19.0	80	10	US-09-829-381A-20	Sequence 20, Appl
36	64	18.9	40	9	US-09-917-340-73	Sequence 73, Appl
37	64	18.9	96	10	US-09-950-933A-42	Sequence 42, Appl
38	63.5	18.7	47	15	US-10-178-213-315	Sequence 315, Appl
39	63.5	18.7	47	15	US-10-178-213-399	Sequence 399, Appl
40	63.5	18.7	47	15	US-10-178-213-402	Sequence 402, Appl
41	63.5	18.7	48	15	US-10-178-213-138	Sequence 138, Appl
42	63.5	18.7	100	15	US-10-178-213-137	Sequence 137, Appl
43	63.5	18.7	769	11	US-09-984-130-67	Sequence 67, Appl
44	63.5	18.7	769	12	US-09-836-353A-67	Sequence 67, Appl
45	63.5	18.7	769	15	US-10-097-340-157	Sequence 157, Appl

ALIGNMENTS

RESULT 1

US-09-829-481-4
; Sequence 4, Application US/09829481
; Patent No. US20020069427A1
; GENERAL INFORMATION:
; APPLICANT: Presnail, James
; APPLICANT: Weng, Jude
; APPLICANT: Wong, James
; TITLE OF INVENTION: Arthropod Defensins
; FILE REFERENCE: B31441 US NA
; CURRENT APPLICATION NUMBER: US/09/829,481
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/197279
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 61
; TYPE: PRT
; ORGANISM: Vaejovis carolinianus
US-09-829-481-4

Query Match 100.0%; Score 339; DB 9; Length 61;
Best Local Similarity 100.0%; Pred. No. 4.8e-32;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MXSIAIIVLVAFCEIDGIVEAGFCGPFNAGCHRHCKSIIRRGFCRGTTCVCR 60
Db 1 MXSIAIIVLVAFCEIDGIVEAGFCGPFNAGCHRHCKSIIRRGFCRGTTCVCR 60

Qy 61 R 61

Db 61 R 61

RESULT 2

US-09-829-481-11
; Sequence 11, Application US/09829481

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Patent No. US20020069427A1
GENERAL INFORMATION:
APPLICANT: Presnail, James
APPLICANT: Weng, Zude
APPLICANT: Wong, James
TITLE OF INVENTION: Arthropod Defensins
FILE REFERENCE: BB1441 US NA
CURRENT APPLICATION NUMBER: US/09/829,481
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/197279
PRIOR FILING DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Office 97
SEQ ID NO 11
LENGTH: 37
TYPE: PRT
ORGANISM: Androctonus australis hector
S-09-829-481-11
Query Match 54.3%; Score 184; DB 9; Length 37;
Best Local Similarity 75.7%; Pred. No. 2.1e-14;
Matches 28; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
Y 25 GFGCPFNAGKCHRCRSIRRRGGFCRGCTFTTCVYR 61
||||| | |||||:|||||: | | | | |
C 1 GFGCPFNAGKCHRCRSIRRRGGYAGLFKQTCTCYR 37
||||| | |||||:|||||: | | | | |
RESULT 3
S-09-917-340-57
Sequence 57, Application US/09917340
Patent No. US20020090369A1
GENERAL INFORMATION:
APPLICANT: Murphy, Christopher J.
APPLICANT: Mcanulty, Jonathan F.
APPLICANT: Reid, Ted W.
TITLE OF INVENTION: Transplant Media
FILE REFERENCE: TPLANT-06468
CURRENT APPLICATION NUMBER: US/09/917,340
CURRENT FILING DATE: 2001-07-29
PRIOR APPLICATION NUMBER: 60/221,632
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 60/249,602
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/290,932
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn ver. 2.0
SEQ ID NO 57
LENGTH: 37
TYPE: PRT
ORGANISM: Androctonus Australis Hector
S-09-917-340-57
Query Match 54.3%; Score 184; DB 9; Length 37;
Best Local Similarity 75.7%; Pred. No. 2.1e-14;
Matches 28; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
Y 25 GFGCPFNAGKCHRCRSIRRRGGFCRGCTFTTCVYR 61
||||| | |||||:|||||: | | | | |
C 1 GFGCPFNAGKCHRCRSIRRRGGYAGLFKQTCTCYR 37
||||| | |||||:|||||: | | | | |
RESULT 4
S-09-030-619-200
Sequence 200, Application US/09030619B
Patent No. US20020035061A1
GENERAL INFORMATION:
APPLICANT: Krieger, Timothy J.
APPLICANT: Taylor, Robert
APPLICANT: Erfe, Douglas
APPLICANT: Fraser, Janet R.
APPLICANT: West, Michael H.P.
; APPLICANT: Monicol, Patricia J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
; TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION
; TITLE OF INVENTION: WITH ANTIHISTAMICS
; FILE REFERENCE: 660081.406
; CURRENT APPLICATION NUMBER: US/09/030,619B
; CURRENT FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 200
; LENGTH: 38
; TYPE: PRT
; ORGANISM: Leirus quinquestriatus
US-09-030-619-200
Query Match 52.2%; Score 177; DB 9; Length 38;
Best Local Similarity 73.0%; Pred. No. 1.4e-13;
Matches 27; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
QY 25 GFGCPFNAGKCHRCRSIRRRGGFCRGCTFTTCVYR 61
||||| | |||||:|||||: | | | | |
Db 1 GFGCPFNAGKCHRCRSIRRRGGYAGLFKQTCTCYR 37
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RESULT 5
US-09-829-481-6
Sequence 6, Application US/09829481
Patent No. US20020069427A1
GENERAL INFORMATION:
APPLICANT: Presnail, James
APPLICANT: Weng, Zude
APPLICANT: Wong, James
TITLE OF INVENTION: Arthropod Defensins
FILE REFERENCE: BB1441 US NA
CURRENT APPLICATION NUMBER: US/09/829,481
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/197279
PRIOR FILING DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 60
TYPE: PRT
ORGANISM: Argiope sp.
US-09-829-481-6
Query Match 49.68%; Score 168; DB 9; Length 60;
Best Local Similarity 45.58%; Pred. No. 2.4e-12;
Matches 25; Conservative 11; Mismatches 19; Indels 0; Gaps 0;
QY 6 IIFIVLVAFCILEDGIVEAGFCGPFNAGKCHRCRSIRRRGGFCRGCTFTTCVY 60
::: | | |||||: | | | | |
Db 5 VLLLCILVCAFAVAVAGFCGPFNAGKCHRCRSIRRRGGYAGLFKQTCTCY 59
::: | | |||||: | | | | |
RESULT 6
US-09-829-481-8
Sequence 8, Application US/09829481
Patent No. US20020069427A1
GENERAL INFORMATION:
APPLICANT: Presnail, James
APPLICANT: Weng, Zude
APPLICANT: Wong, James
TITLE OF INVENTION: Arthropod Defensins
FILE REFERENCE: BB1441 US NA
CURRENT APPLICATION NUMBER: US/09/829,481
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/197279
PRIOR FILING DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Office 97
SEQ ID NO 8
LENGTH: 60
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TYPE: PRT
ORGANISM: Argiope sp.

S-09-829-481-8

Query Match 49.6%; Score 168; DB 9; Length 60;
Best Local Similarity 45.5%; Pred. No. 2.4e-12;
Matches 25; Conservative 11; Mismatches 19; Indels 0; Gaps 0;
Y 6 IIFVLVAFCHLEIDGIVEAGFCPPFNAGKCHRRCKSIRRRGGFCRGFTTTCVY 60
: : : : : | | | | | : : | | | : : | | : : | |
b 5 VLLTICLVCAFAITVVEAGFCPPFDQMCQCHNCHRSIKYRGYCTNLFKRTCKY 59

RESULT 7

S-09-829-481-10
Sequence 10, Application US/09829481
Patent No. US20020069427A1
GENERAL INFORMATION:
APPLICANT: Presnail, James
APPLICANT: Wong, Zude
APPLICANT: Wong, James
TITLE OF INVENTION: Arthropod Defensins
FILE REFERENCE: B1441 US NA
CURRENT APPLICATION NUMBER: US/09/829,481
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/197279
PRIOR FILING DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Office 97
SEQ ID NO 10
LENGTH: 55

TYPE: PRT
ORGANISM: Argiope sp.

S-09-829-481-10

Query Match 43.8%; Score 148.5; DB 9; Length 55;
Best Local Similarity 44.1%; Pred. No. 3.9e-10;
Matches 26; Conservative 13; Mismatches 15; Indels 5; Gaps 2;
Y 4 IAIIFVLVAFCHLEIDGIVEAGFCPPFNAGKCHRRCKS-IRRRGGFCRGFTTTCVY 61
: : : : : | | | | | : : | | | : : | | : : | |
b - 1 MCVTFIALSY----PPLVDAGFCPPCGEGCNLECKHVYKARGFTGAFKTKCKNR 55

RESULT 8

S-09-829-481-2
Sequence 2, Application US/09829481
Patent No. US20020069427A1

GENERAL INFORMATION:

APPLICANT: Presnail, James
APPLICANT: Wong, Zude
APPLICANT: Wong, James
TITLE OF INVENTION: Arthropod Defensins
FILE REFERENCE: B1441 US NA
CURRENT APPLICATION NUMBER: US/09/829,481
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/197279
PRIOR FILING DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Office 97
SEQ ID NO 2
LENGTH: 61

TYPE: PRT

ORGANISM: Scolopendra canidens DS
S-09-829-481-2

Query Match 43.7%; Score 148; DB 9; Length 61;
Best Local Similarity 43.3%; Pred. No. 4.9e-10;
Matches 26; Conservative 11; Mismatches 23; Indels 0; Gaps 0;

Y 1 MKSIAIIFVLVAFCHLEIDGIVEAGFCPPFNAGKCHRRCKSIRRRGGFCRGFTTTCVY 60
: : : : : | | | | | : : | | | : : | | : : | |
b 1 MKTVTIVFLVALLVLAAGTIVVEAGFCPPDQYECNCHRRCHNGFTGCTGFLKFTCKY 60

RESULT 9

US-09-030-619-199
Sequence 199, Application US/09030619B
Patent No. US20020035061A1
GENERAL INFORMATION:
APPLICANT: Krieger, Timothy J.
APPLICANT: Taylor, Robert
APPLICANT: Erfile, Douglas
APPLICANT: Fraser, Janet R.
APPLICANT: West, Michael H.P.
APPLICANT: McNicol, Patricia J.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION
WITH ANTIMIOTICS
FILE REFERENCE: 66081.406
CURRENT APPLICATION NUMBER: US/09/030,619B
CURRENT FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 232
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 199
LENGTH: 38

TYPE: PRT

ORGANISM: Aeschna cyanea
US-09-030-619-199

Query Match 39.4%; Score 133.5; DB 9; Length 38;
Best Local Similarity 55.3%; Pred. No. 1.4e-08;
Matches 21; Conservative 6; Mismatches 10; Indels 1; Gaps 1;

QY 25 GFGCPFNAGKCHRRCKSIR-RRGGFCRGFTTTCVYR 61

DB 1 GFGCPDQMCQCHRRCHQTTTGRSGGCGSGPLXLTCTYR 38

RESULT 10

US-09-917-340-58
Sequence 58, Application US/09917340
Patent No. US20020090369A1

GENERAL INFORMATION:

APPLICANT: Murphy, Christopher J.
APPLICANT: McAnulty, Jonathan F.
APPLICANT: Reid, Ted W.
TITLE OF INVENTION: Transplant Media
FILE REFERENCE: TPLANT-06468
CURRENT APPLICATION NUMBER: US/09/917,340
CURRENT FILING DATE: 2001-07-29
PRIOR APPLICATION NUMBER: 60/221,632
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 60/249,602
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/290,932
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 58
LENGTH: 38

TYPE: PRT

ORGANISM: Mytilus galloprovincialis
FEATURE:
NAME/KEY: SITE
LOCATION: (28)

OTHER INFORMATION: Xaa at this position can be any amino acid.
US-09-917-340-58

Query Match 37.8%; Score 128; DB 9; Length 38;
Best Local Similarity 63.2%; Pred. No. 6.1e-08;
Matches 24; Conservative 2; Mismatches 10; Indels 2; Gaps 2;

QY 25 GFGCPFNAGKCHRRCKSIRRR-RRGGFCRGFTTTCVYR 61

DB 1 GFGCPCNNYQCHRRCKSIPGRGGYCGGXRHLRCTYR 37

	Matches	24; Conservative	7; Mismatches	27; Indels	11; Gaps	3;
Qy	3	SIATITVLVAFCLIEDGIVVAGFGGPFNA-----GKCHRH-----CKSTRRRGFGFGRGT	52			
Db	8	TFAILFTFLFLFSSSELGVTVVOGRMCQSQSHKYHGACFRHHNCALVCRNEFGFGGRCRG-	66			
Qy	53	FRITTCVCYR	61			
Db	67	FRRCFCCTR	75			

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RESULT 13
US-09-950-933A-50
; Sequence 50, Application US/09950933A
; Patent No. US20020166141A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro, Pedro
; TITLE OF INVENTION: Antimicrobial Peptides and Methods of
; TITLE OF INVENTION: Use
; FILE REFERENCE: 35718/238472
; CURRENT APPLICATION NUMBER: US/09/950,933A
; CURRENT FILING DATE: 2001-09-11
; PRIOR APPLICATION NUMBER: 60/232,569
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Triticum aestivum

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Query Match      33.6%; Score 114; DB 9; Length 35;
Best Local Similarity 61.1%; Pred. No. 2.3e-06;
Matches 22; Conservative 1; Mismatches 11; Indels 2; Gaps 2;
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25 GFGCPFNAGKCHRHCKSI-RRRGFCRGTFRTTCVC 59
||||| | ||||| | ||| | | |
1 GFGCP-NDYPCHRHCKSI-PGRYGGYCGGXHLRCTC 35

SULT 12

-10-178-213-398
sequence 398, Application US/10178213
Publication No. US20030041348A1

GENERAL INFORMATION:

APPLICANT: Simmons, Carl R.
APPLICANT: Navarro Acevedo, Pedro A.
APPLICANT: Harvell, Leslie
APPLICANT: Caloon, Rebecca
APPLICANT: McCutchen, Billy Fred
APPLICANT: Lu, Albert
APPLICANT: Herrmann, Rafael
APPLICANT: Wong, James

TITLE OF INVENTION: Defensin Polynucleotides and Methods of
Use
FILE REFERENCE: 35718/246703
CURRENT APPLICATION NUMBER: US/10178,213
CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: 60/300,152
PRIOR FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: 60/300,241
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 469
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 398
LENGTH: 77

TYPE: PRT
ORGANISM: Vernonia mespilifolia

-10-178-213-398

Query Match 25.2%; Score 85.5; DB 15; Length 7
Best Local Similarity 34.8%; Pred. No. 0.01;

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Query Match      24.9%; Score 84.5; DB 10; Length 98;
Best Local Similarity 30.7%; Pred. No. 0.017;
Matches 23; Conservative 9; Mismatches 22; Indels 21; Gaps 3;

QY    4 IAIITVIVLPAFCEIDGIVRAGFCPPNNAKCHHCKSIIRRGFC----- 49
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Db     14 VALLLLIIVAASLIQAAPASGF-C---AGCAVCRCGRSAKRACMKGCLGCCXECACY 69

QY    50 ---RGFTTTCVCYR 61
       | | | | |
Db     70 PTGRSGSRDECPCYR 84

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RESULT 14
US-10-178-213-401
; Sequence 401, Application US/10178213
; Publication No. US20030041348A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.

GenCore version 5.1.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 16, 2003, 17:47:49 ; Search time 245 Seconds
(without alignments)

4351.869 Million cell updates/sec

Title: US-09-829-481-3

Perfect score: 406
Sequence: 1 cctactacatacctaagt.....aaaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1750203 seqs, 1313063994 residues

Total number of hits satisfying chosen parameters: 3500406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	406	100.0	406	9 US-09-829-481-3	Sequence 3, Appli
2	76	18.7	386	9 US-09-829-481-5	Sequence 5, Appli
3	57.4	14.1	406	12 US-09-814-353-17782	Sequence 17782, A
4	55.8	13.7	17294	12 US-10-311-455-959	Sequence 959, App
5	55.6	13.7	714	12 US-09-814-353-4684	Sequence 4684, Ap
6	55.6	13.7	714	12 US-09-814-353-10983	Sequence 10983, A
7	55.2	13.6	325	10 US-09-764-846-30	Sequence 30, Appli
8	55.2	13.6	325	14 US-10-091-483-30	Sequence 30, Appli
9	55.2	13.6	621	10 US-09-764-846-105	Sequence 105, App
10	55.2	13.6	621	14 US-10-091-483-105	Sequence 105, App
11	55.2	13.6	717	14 US-10-311-455-1715	Sequence 1715, Ap
12	54.8	13.5	445	12 US-09-814-353-17408	Sequence 17408, A
13	54.6	13.4	351	9 US-09-829-481-7	Sequence 7, Appli
14	54.6	13.4	425	10 US-09-834-975-451	Sequence 451, App
15	54	13.3	350	12 US-09-814-353-18240	Sequence 18240, A
16	54	13.3	363	12 US-09-814-353-4589	Sequence 4589, Ap

c 17	54	13.3	363	12	US-09-814-353-10888	Sequence 10888, A
c 18	53.8	13.3	293	12	US-09-814-353-4454	Sequence 4454, Ap
c 19	53.8	13.3	293	12	US-09-814-353-10757	Sequence 10757, A
c 20	53.8	13.3	380	10	US-09-960-352-9335	Sequence 9335, Ap
c 21	53.8	13.3	461	9	US-09-829-481-1	Sequence 1, Appli
c 22	53.8	13.3	6290	12	US-10-311-455-1020	Sequence 1020, Ap
c 23	53.6	13.2	471	11	US-09-918-995-14052	Sequence 14052, A
c 24	53.6	13.2	475	14	US-10-198-846-5882	Sequence 5882, A
c 25	53.6	13.2	1812	11	US-09-374-046A-63	Sequence 63, Appli
c 26	53.4	13.2	351	12	US-09-814-353-17579	Sequence 17579, A
c 27	53.4	13.2	810	12	US-09-814-353-5846	Sequence 5846, Ap
c 28	53.4	13.2	810	12	US-09-814-353-12127	Sequence 12127, A
c 29	53.4	13.2	6189	12	US-10-240-485-146	Sequence 146, App
c 30	53.2	13.1	236	10	US-09-960-352-12183	Sequence 12183, A
c 31	53	13.1	397	10	US-09-960-352-13784	Sequence 13784, A
c 32	53	13.1	419	12	US-09-814-353-5099	Sequence 5099, Ap
c 33	53	13.1	419	12	US-09-814-353-11391	Sequence 11391, A
c 34	53	13.1	805	12	US-09-814-353-2363	Sequence 2363, Ap
c 35	53	13.1	805	12	US-09-814-353-8701	Sequence 8701, Ap
c 36	52.8	13.0	393	10	US-09-960-352-5187	Sequence 5187, Ap
c 37	52.8	13.0	454	11	US-09-918-995-13971	Sequence 13971, A
c 38	52.8	13.0	461	12	US-09-814-353-17724	Sequence 17724, A
c 39	52.8	13.0	508	12	US-09-814-353-18511	Sequence 18511, A
c 40	52.8	13.0	723	12	US-09-814-353-4726	Sequence 4726, A
c 41	52.8	13.0	723	12	US-09-814-353-11024	Sequence 11024, A
c 42	52.6	13.0	3293	10	US-09-764-864-123	Sequence 123, App
c 43	52.6	13.0	5198	12	US-10-311-455-252	Sequence 252, App
c 44	52.6	13.0	3673778	12	US-10-312-841-2	Sequence 2, Appli
c 45	52.4	12.9	476	12	US-09-814-353-4700	Sequence 4700, Ap

ALIGNMENTS

RESULT 1
US-09-829-481-3
; Sequence 3, Application US/09829481
; Patent No. US20020069427A1
; GENERAL INFORMATION:
; APPLICANT: Presnail, James
; APPLICANT: Wong, Zude
; APPLICANT: Wong, James
; TITLE OF INVENTION: Arthropod Defensins
; FILE REFERENCE: B81441 US NA
; CURRENT APPLICATION NUMBER: US/09/829,481
; PRIORITY FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/197279
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 3
; LENGTH: 406
; TYPE: DNA
; ORGANISM: Vaejovis carolinianus
US-09-829-481-3

Query Match	100.0%	Score	406;	DB	9;	Length	406;
Best Local Similarity	100.0%	Pred. No.	5.9e-76;				
Matches	406;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
QY	1	CTCTACTACATCACTAGTTCCTTCTCCACTAGCTTCAGATGAAATCCATAGCTAT	60				
Db	1	CTCTACTACATCACTAGTTCCTTCTCCACTAGCTTCAGATGAAATCCATAGCTAT	60				
QY	61	TATTTTCATCGTCTTGTGCTTCTGCTATTTTGGAGATGGGATTTAGAACTGGTTT	120				
Db	61	TATTTTCATCGTCTTGTGCTTCTGCTATTTTGGAGATGGGATTTAGAACTGGTTT	120				
QY	121	TGGATGTCCTTTTATGACGAGAAATGCCATAGACATTCGCAAGTATTCGTCGTAGAG	180				
Db	121	TGGATGTCCTTTTATGACGAGAAATGCCATAGACATTCGCAAGTATTCGTCGTAGAG	180				
QY	181	AGGCTTTTCAGAGGAGAACTTTTCAGGACAACTCGGTTGCTATAGGTGAAATCCGATTT	240				

LOCATION: 348, 355, 365, 374, 377, 383, 392, 399, 400, 412, 415
OTHER INFORMATION: n = A,T,C or G

FEATURE:

NAME/KEY: misc.feature
LOCATION: 423, 425, 427, 428, 429, 431, 433, 434, 436, 440, 442, 454,
LOCATION: 458, 456, 467, 479, 481, 485, 499, 529, 530, 533, 535, 544,
LOCATION: 545, 556, 560, 563, 565, 575, 581, 583, 586, 588, 592, 596,
LOCATION: 600, 602, 606, 611, 620, 633, 635, 637, 640, 642, 649
OTHER INFORMATION: n = A,T,C or G

FEATURE:

NAME/KEY: misc.feature
LOCATION: 651, 655, 675, 676, 685, 687, 690, 691, 702
OTHER INFORMATION: n = A,T,C or G

JS-09-814-353-10983

Query Match 13.7%; Score 55.6; DB 12; Length 714;
Best Local Similarity 48.7%; Pred. No. 0.026;
Matches 109; Conservative 0; Mismatches 115; Indels 0; Gaps 0;

Y 181 AGGCTTTTCGAGGAGACTTTCAGGACACCTCGTTGCTATAGGTGAAATCCGATTT 240
b 280 AAGTNTTGNNGNAGNGANAAAAAANNTTTTTTTTTTAAANNGCCNGNTTN 221
Y 241 ATTGCCCATATGAGACCCGTTTATTGAATATCGTCAGTTTCCAAATTAAGTCAATT 300
b 220 AAAANNGAATTTTNTTATNTTTTTTTTNNAAAAAATTTTTTGGNNNNAAATTTTNA 161
Y 301 CGACCCATCTGATATTTTGTATCTACACAGATGCAATAGTTTAAATAAACTTAT 360
b 160 AAAAAAATTTTTTTTTTTTAAANAAAAAANAAAAAANAAAAAANAAAAA 101
Y 361 ACTTAACCTTTTAAAAAANAAAAAANAAAAAANAAAAAANAAAAA 404
b 100 AAAAAAATAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAA 57

RESULT 7

S-09-764-846-30
Sequence 30, Application US/09764846
Patent No. US20020102638A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ12
CURRENT APPLICATION NUMBER: US/09/764,846
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 348
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 30
LENGTH: 325
TYPE: DNA
ORGANISM: Homo sapiens
S-09-764-846-30

Query Match 13.6%; Score 55.2; DB 10; Length 325;
Best Local Similarity 60.8%; Pred. No. 0.023;
Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

Y 259 CCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCAATTCGAGCCATCTGAATAAT 318
b 104 CCTTTAATTCACATAAATAAGCATCTATTAGTGTCTGATTAGGAATGTAATGAT 163
Y 319 TTGTGATCTAACACAGATGCAATAGTTTAAATAAACTTATTACTTTTAAAAAAA 378
b 164 TCTGTATTAAATGTAATAAGATTATCTATTGCAAAAAAGATATTTCAAAACCTAAAAAAA 223
Y 379 AAAAAAANAAAAAANAAAAAANAAAAA 406
b 224 AAAAAAANAAAAAANAAAAAANAAAAA 251

RESULT 8

US-10-091-483-30

Sequence 30, Application US/10091483

Publication No. US20030049650A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

FILE REFERENCE: PTZ12C1

CURRENT APPLICATION NUMBER: US/10/091,483

CURRENT FILING DATE: 2002-03-07

NUMBER OF SEQ ID NOS: 348

Prior Application removed - See File Wrapper or Palm

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 30

LENGTH: 325

TYPE: DNA

ORGANISM: Homo sapiens

US-10-091-483-30

Query Match 13.6%; Score 55.2; DB 14; Length 325;

Best Local Similarity 60.8%; Pred. No. 0.023; 58; Indels 0; Gaps 0;

Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

Y 259 CCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCAATTCGAGCCATCTGAATAAT 318

b 104 CCTTTAATTCACATAAATAAGCATCTATTAGTGTCTGATTAGGAATGTAATGAT 163

Y 319 TTGTGATCTAACACAGATGCAATAGTTTAAATAAACTTATTACTTTTAAAAAAA 378

b 164 TCTGTATTAAATGTAATAAGATTATCTATTGCAAAAAAGATATTTCAAAACCTAAAAAAA 223

Y 379 AAAAAAANAAAAAANAAAAAANAAAAA 406

b 224 AAAAAAANAAAAAANAAAAAANAAAAA 251

Db 388 CCTTATTAATCACTAAATAAAGCATCTATTAGTGTCTGATTAGGAATGTAATAATGAT 447
 QY 319 TTGTGTAATCTACACACATGCAATAGTTTAAATAAACTTATACCTTAACTTTTAAAAA 378
 Db 448 TCTGTATTAACTGAATAAGATTATCTATTGCAAAAGATATTCTCAACCTTAAAAA 507
 QY 379 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 406
 Db 508 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 535

RESULT 10

US-10-091-483-105
 ; Sequence 105, Application US/10091483
 ; Publication No. US20030049650A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PT12C1
 ; CURRENT APPLICATION NUMBER: US/10/091,483
 ; CURRENT FILING DATE: 2003-03-07
 ; NUMBER OF SEQ ID NOS: 348
 ; Prior Application removed - See File Wrapper or Palm
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 105
 ; LENGTH: 621
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; NAME/KEY: misc_feature
 ; LOCATION: (80)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc_feature
 ; LOCATION: (612)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc_feature
 ; LOCATION: (620)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc_feature
 ; LOCATION: (621)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; JS-10-091-483-105

Query Match 13.6%; Score 55.2; DB 14; Length 621;

Best Local Similarity 60.8%; Pred. No. 0.03;

Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 259 CCGTTTATTGCAATATCGTCAGTTTCCAAATTAAGTCATTTGAGCCATCTACTGATATAT 318
 Db 388 CCTTATTAATCACTAAATAAAGCATCTATTAGTGTCTGATTAGGAATGTAATAATGAT 447
 QY 319 TTGTGTAATCTACACACATGCAATAGTTTAAATAAACTTATACCTTAACTTTTAAAAA 378
 Db 448 TCTGTATTAACTGAATAAGATTATCTATTGCAAAAGATATTCTCAACCTTAAAAA 507
 QY 379 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 406
 Db 508 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 535

RESULT 11

US-10-198-846-1715/c
 ; Sequence 1715, Application US/10198846
 ; Publication No. US2003009974A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lillie, James
 ; APPLICANT: Xu, Yongyao
 ; APPLICANT: Wang, Youzhen
 ; APPLICANT: Steinmann, Kathleen
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
 ; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 ; TITLE OF INVENTION: THERAPY OF BREAST CANCER
 ; FILE REFERENCE: MRI-049

; CURRENT APPLICATION NUMBER: US/10/198,846
 ; CURRENT FILING DATE: 2002-07-18
 ; PRIOR APPLICATION NUMBER: 60/306,220
 ; PRIOR FILING DATE: 2001-07-18
 ; NUMBER OF SEQ ID NOS: 14084
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1715
 ; LENGTH: 717
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; NAME/KEY: misc_feature
 ; LOCATION: 5, 8, 9, 12, 19, 22, 23, 25, 33, 34, 40, 184, 204, 205, 210,
 ; LOCATION: 216, 219, 223, 225, 226, 228, 229, 236, 238, 239, 241, 243,
 ; LOCATION: 246, 248, 250, 254, 255, 256, 258, 261, 268, 270, 276, 277,
 ; LOCATION: 279, 281, 287, 290, 292, 293, 295, 296, 297
 ; OTHER INFORMATION: n = A,T,C or G
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 298, 299, 300, 302, 303, 304, 305, 307, 309, 313, 318, 319,
 ; LOCATION: 320, 321, 322, 323, 325, 330, 331, 335, 336, 338, 340, 342,
 ; LOCATION: 345, 346, 348, 357, 359, 360, 372, 376, 381, 385, 386, 395,
 ; LOCATION: 402, 415, 416, 418, 428, 429, 436, 437, 446, 463, 465
 ; OTHER INFORMATION: n = A,T,C or G
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 466, 467, 468, 472, 473, 474, 486, 489, 491, 494, 495, 498,
 ; LOCATION: 499, 503, 510, 511, 514, 519, 520, 522, 524, 526, 529, 530,
 ; LOCATION: 534, 539, 542, 543, 544, 545, 546, 551, 552, 553, 555, 557,
 ; LOCATION: 558, 567, 570, 571, 574, 575, 576, 578, 584, 604, 605
 ; OTHER INFORMATION: n = A,T,C or G
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 612, 617, 618, 619, 623, 625, 626, 629, 631, 635, 638, 650,
 ; LOCATION: 652, 664, 665, 668, 670, 671, 675, 677, 680, 685, 693, 699,
 ; LOCATION: 700, 710, 711, 715
 ; OTHER INFORMATION: n = A,T,C or G
 ; US-10-198-846-1715

Query Match 13.6%; Score 55.2; DB 14; Length 717;

Best Local Similarity 36.4%; Pred. No. 0.032;

Matches 144; Conservative 0; Mismatches 252; Indels 0; Gaps 0;

QY 11 ATCACTAAGTCTTTCTCCACTCAGCTTCAAGATGAATCAATCCATAGCTATTATTTTCATC 70
 Db 521 ANCCCGGNNATCTTATGNNCCNCCNATATTCATTTAAATGNNNGTNNNNCNC 462
 QY 71 GTCTTTGTCCTTCTGTATTTTGGAGGATGGGATGTAGAGCTGGTTTGGATGTC 130
 Db 461 CCTCTATCTTTTNTNTNTTTTTCNNCACTTTNNGTTAATAAGNNGNTTTTNTTTT 402
 QY 131 TTATATCGAGAAATGCCATAGACATTCGAAAGATTCGTCGTAGAGGAGGCTTTTGC 190
 Db 401 ATAAATAAATAGANNAGGGGNTTCNAAAGTTTNTTNNNCCAAAAAANGNNTCN 342
 QY 191 AGAGAACTTTGAGGACAACTGCTTTGCTATAGGTGAAATCCGATTTATTGCGATA 250
 Db 341 TTTTNCNTTTTNNAAAAAANCNNNNNTGGNATTCNCCNNNNNNNNNNNNNNNNNTTT 282
 QY 251 ATGGAGACCCGTTTATTAATATCGTCAGTTCCAAATTAAGTCATTTTCGAGGCATAC 310
 Db 281 NTNANNAGGGGNCNTTTTNTTNTNNAANTNTCCNTNTNNGCCCTTNNCNCNTNA 222
 QY 311 TGAATAATTTTGTAACTAAACACAGATGCAATAGTTTAAATAAACTTATACCTTT 370
 Db 221 AANTTTTNTTNTTNTTNNAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 162
 QY 371 TAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 406
 Db 161 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 126

RESULT 12

RESULT 13
 S-09-829-481-7
 Sequence 7, Application US/09829481
 Patent No. US20020069427A1
 GENERAL INFORMATION:
 APPLICANT: Presnail, James
 APPLICANT: Wong, Zude
 APPLICANT: Wong, James
 TITLE OF INVENTION: Arthropod Defensins
 FILE REFERENCE: B1441 US NA
 CURRENT APPLICATION NUMBER: US/09/829,481
 CURRENT FILING DATE: 2001-04-10
 PRIOR APPLICATION NUMBER: 60/197279
 PRIOR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 7
 LENGTH: 351
 TYPE: DNA
 ORGANISM: Argiope sp.
 S-09-829-481-7
 Query Match 13.4%; Score 54.6; DB 9; Length 351;

[illegible]

RESULT 15
US-09-814-353-18240/c
; Sequence 18240, Application US/09814353

Publication No. US20030165831A1
GENERAL INFORMATION:
APPLICANT: Thompson, Pamela
APPLICANT: Lilie, James
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER
FILE REFERENCE: MEI-006B
CURRENT APPLICATION NUMBER: US/09/814,353
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: US 60/191,031
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: US 60/207,124
PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 22037
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 18240
LENGTH: 350
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 322
OTHER INFORMATION: n = A,T,C or G
US-09-814-353-18240

Query Match 13.3%; Score 54; DB 12; Length 350;
Best Local Similarity 58.5%; Pred. No. 0.043;
Matches 93; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

y	248	ATAATGGAGACCGCTTTTATGTGATATCGTCAGTTTCCAAATTAAGTCATTTGAGCCCA	307
b	335	AAACCAATCTTNTTTTTTTTTTTTTTTTTTTTGTGTTTTCACAAAAAAATTTATCCCT	276
y	308	TACTGAATAATTTGTATCTAACACAGATGCAATAGTTTAAATAACCTATACCTAAC	367
b	275	CTCTTATTTTAAATAAAATAAAAAAAATAAATTTTATTAATAAAAAAAAT	216
y	368	TTTTAAAAAAATAAAAAAAATAAAAAAAATAAAAAAA	406
b	215	TTTTAAAAAAATAAAAAAAATAAAAAAAATAAAAAAA	177

earch completed: October 16, 2003, 18:58:22
ob time : 252 secs


```

: ATTORNEY/AGENT INFORMATION:
: NAME: Barker, M. P.
: REGISTRATION NUMBER: 32,013
: REFERENCE/DOCKET NUMBER: 02481.1323-00000
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-408-4000
: TELEFAX: 202-408-4400
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3581 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA to mRNA
: ORIGINAL SOURCE:
: ORGANISM: Mus musculus
: STRAIN: osteoblastic cell line MC3T3E1
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 284...2671
:
: US-08-738-349-1
:
: Query Match 13.0%; Score 52.8; DB 2; Length 3581;
: Best Local Similarity 71.9%; Pred. No. 0.01; 27; Indels 0; Gaps 0;
: Matches 69; Conservative 0; Mismatches 0;
:
: QY 311 TGAATAATTTGTATCTAACACAGATGCAATAGTTTAATAAAGCTTATACCTTAACCTTT 370
: Db 3443 TGTCTTTAATATGAGCTTCAATATAAAGAAGCAACCTTTTGAATAAAAAAAGATTCCTTTT 3502
:
: QY 371 TAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 406
: Db 3503 TAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3538
:
: RESULT 4

```

Sequence 3, Application US/08/57046A

Patent No. 5876995

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce

TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Brown, Martin, Haller & McClain

STREET: 1660 Union Street

CITY: San Diego

STATE: CA

COUNTRY: USA

ZIP: 92101-2926

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/757,046A

FILING DATE: 11-25-96

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/597,274

FILING DATE: 02-06-96

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie L

REGISTRATION NUMBER: 33,779

REFERENCE/DOCKET NUMBER: 6680-105B

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-238-0999

TELEFAX: 619-238-0062

TELEX:

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 958 base pairs

ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24727-105C
TELEPHONE: 619-450-8400
TELEFAX: 619-450-8499
TELEX:

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 958 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
FEATURE:

NAME/KEY: Coding Sequence
LOCATION: 115...702
OTHER INFORMATION: apoaeguorin-encoding gene
PUBLICATION INFORMATION:
PUBLICATION INFORMATION: PATENT NO.: 5,093,240
AUTHORS: Inouye et al.
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
VOLUME: 82
PAGES: 3154-3158
DATE: (1985)
US-09-447-208-5

Query Match 12.9%; Score 52.4; DB 3; Length 958;
Best Local Similarity 57.2%; Pred No. 0.011; Indels 0; Gaps 0;
Matches 95; Conservative 0; Mismatches 71;

241 ATTGGCATATGAGACCCGTTTTTATTTGAATATCGTCAGTTTCCCAATTAAGAATCATTT 300
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
779 ATTTTCCAATTTTGAGCGATTTCATCGTTGTGTGTTGTTGTAATTAGGAACAGA 838

301 CGAGCCACTACTGAATAATTTCTAATCTAACACAGATGCATAGTTTAAATAACTTAT 360
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
839 TTTAAATCGAATGATTAGTTGTTTTTTTAAATCAACAGAACTTACAAAATCGAAAAAGTAAA 898
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
899 AA 944

361 ACTTAACTTTTAA 406
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
899 AA 944

RESULT 6
US-09-135-988-5
Sequence 5, Application US/09135988
Patent No. 6152358
GENERAL INFORMATION:
APPLICANT: Brydan, Bruce
TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09135,988
FILING DATE:
CLASSIFICATION:

RESULT 7
 -09-277-716-5
 Sequence 5, Application US/09277716A
 Patent No. 6232107
 GENERAL INFORMATION:
 APPLICANT: Bryan, Bruce
 APPLICANT: Szent-Gyorgyi, Christopher
 APPLICANT: PROLUME, Ltd.
 TITLE OF INVENTION: LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE
 CURRENT APPLICATION NUMBER: US/09/277,716A
 CURRENT FILING DATE: 1999-03-26
 EARLIER APPLICATION NUMBER: 60/102,939
 EARLIER FILING DATE: 1998-10-01
 EARLIER APPLICATION NUMBER: 60/089,367
 EARLIER FILING DATE: 1998-06-15
 EARLIER APPLICATION NUMBER: 60/079,624
 EARLIER FILING DATE: 1998-03-27

TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
TELEX:

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
LENGTH: 958 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:

NAME/KEY: Coding Sequence
LOCATION: 115...702
OTHER INFORMATION: apoaequorin-encoding gene
PUBLICATION INFORMATION:
DOCUMENT NUMBER: 5,093,240
AUTHORS: Inouye et al.
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
VOLUME: 82
PAGES: 3154-3158
DATE: (1985)

JS-08-597-274A-5

Query Match 12.9%; Score 52.4; DB 3; Length 958;
Best Local Similarity 57.2%; Pred. No. 0.011;
Matches 95; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

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Y 241 ATTGCCATAATGGAGACCCGTTTATTGTAATATCGTCAGTTTCCAAATTAAGTCATT 300
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Db 779 ATTTCCAAATTTTGACGATTTCAATCGTTGTGTTGATTTTGTATTTAGAACAGA 838
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Y 301 CGAGCCATCTACTGTAATATTTGTAATCTAACACAGATGCAATAGTTTAAATAACTTAT 360
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 839 TTAATCGAATGATTAGTTGTTTATTAATCAACAGAACTTACAAATCGAAAAAGTAAA 898
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Y 361 ACTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 899 AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 944
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```

RESULT 9

US-08-908-909-5
Sequence 5, Application US/08908909
Patent No. 6416960

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce
TITLE OF INVENTION: DETECTION AND VISUALIZATION OF
TITLE OF INVENTION: NEOPLASTIC TISSUES AND OTHER TISSUES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:

ADDRESSER: Brown, Martin, Haller & McClain
CITY: San Diego
STATE: CA
COUNTRY: USA

ZIP: 92101-2926

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/908,909

FILING DATE: 08-AUG-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: 60/023,374

FILING DATE: 08-AUG-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie L
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6680-108
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
TELEX:

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
LENGTH: 958 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:

NAME/KEY: Coding Sequence
LOCATION: 115...702
OTHER INFORMATION: apoaequorin-encoding gene
PUBLICATION INFORMATION:
AUTHORS: Inouye et al.
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
VOLUME: 82
PAGES: 3154-3158
DATE: (1985)

US-08-908-909-5
Query Match 12.9%; Score 52.4; DB 4; Length 958;
Best Local Similarity 57.2%; Pred. No. 0.011;
Matches 95; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

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QY 241 ATTGCCATAATGGAGACCCGTTTATTGTAATATCGTCAGTTTCCAAATTAAGTCATT 300
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 779 ATTTCCAAATTTTGACGATTTCAATCGTTGTGTTGATTTTGTATTTAGAACAGA 838
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 301 CGAGCCATCTACTGTAATATTTGTAATCTAACACAGATGCAATAGTTTAAATAACTTAT 360
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 839 TTAATCGAATGATTAGTTGTTTATTAATCAACAGAACTTACAAATCGAAAAAGTAAA 898
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 361 ACTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 899 AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 944
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```

RESULT 10

US-09-609-161B-5

Sequence 5, Application US/09609161B
Patent No. 643682

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce

APPLICANT: Szent-Gyorgyi, Christopher

APPLICANT: PROLUME, LTD.

TITLE OF INVENTION: LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE

TITLE OF INVENTION: AND FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS,

FILE REFERENCE: 24729-121B

CURRENT APPLICATION NUMBER: US/09/609,161B

CURRENT FILING DATE: 2000-06-30

PRIOR APPLICATION NUMBER: 09/277,716

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: 60/102,939

PRIOR FILING DATE: 1998-10-01

PRIOR APPLICATION NUMBER: 60/089,367

PRIOR FILING DATE: 1998-06-15

PRIOR APPLICATION NUMBER: 60/079,624

PRIOR FILING DATE: 1998-03-27

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.0

ADD

STATE: Ohio
COUNTRY: United States
ZIP: 43215
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh System 7.1
SOFTWARE: ClarisWorks 1.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/308,883
FILING DATE: 16-SEP-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA: No. 5576300 applicable
TELECOMMUNICATION INFORMATION:
TELEPHONE: (614) 624-3774
TELEFAX: (614) 624-3074
TELEX: No. 5576300e
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
DESCRIPTION: Human milk kappa-casein
HYPOTHETICAL: NO
ANTI-SENSE:
FRAGMENT TYPE:
ORGANISM: Homo sapiens
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE: Adult
HAPLOTYPE:
TISSUE TYPE: Mammary gland
CELL TYPE:
CELL LINE:
ORGANELLE:
IMMEDIATE SOURCE: Human Mammary Gland
CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE:
NAME/KEY: CDS
LOCATION: 45...593
IDENTIFICATION METHOD: DNA sequencing and restriction analysis
OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the human
PUBLICATION INFORMATION:
AUTHORS: L. Hansson et al
TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER: PCT/WO93/15196
FILING DATE: 25-JAN-1993
PUBLICATION DATE: 05-AUG-1993
RELEVANT RESIDUES IN SEQ ID NO:
JS-08-308-883-1

Query Match 12.8%; Score 52; DB 1; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.013;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
2Y 299 TTGAGCCGACTGTAATTTTGTATCTACACAGATGCAATAGTTTAAATAACTT 358
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
2b 741 TTCATGCCACATTCATATTTTGTATCTTGCACATAAAGCCAACTGATTGCAAAAAA 800
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
2Y 359 ATACTTAACCTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 406

Db 801 AAA 848
|||||
RESULT 13
US-08-730-163-1
Sequence 1: Application US/08730163
Patent No. 5712250
GENERAL INFORMATION:
APPLICANT: Mukerji, P. A.
APPLICANT: Prieto, P. A.
APPLICANT: Seo, A. E.-Y.
APPLICANT: Baxter, J. H.
APPLICANT: Cummings, R. D.
TITLE OF INVENTION: Product for Inhibition of Human Rotavirus Infection.
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lonnie R. Drayer
ADDRESSEE: ROSS Products Division
ADDRESSEE: Abbott Laboratories
STREET: 625 Cleveland Avenue
CITY: Columbus
STATE: Ohio
COUNTRY: United States
ZIP: 43215
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb storage (B)COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh System 7.1(D)SOFTWARE: ClarisWorks 1.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/730,163
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/308,882
FILING DATE: 16-SEP-1994
TELECOMMUNICATION INFORMATION:
TELEPHONE: (614) 624-3774
TELEFAX: (614) 624-3074
TELEX: NO. 5712250e
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
DESCRIPTION: Human milk kappa-casein
HYPOTHETICAL: NO
ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE: Human
ORGANISM: Homo sapiens
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE: Adult
HAPLOTYPE:
TISSUE TYPE: Mammary gland
CELL TYPE:
CELL LINE:
ORGANELLE:
IMMEDIATE SOURCE: Human Mammary Gland
LIBRARY:
CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE:
NAME/KEY: CDS
LOCATION: 45...593
IDENTIFICATION METHOD: DNA sequencing and restriction analysis
OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the hu
PUBLICATION INFORMATION:
AUTHORS: L. Hansson et al
TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER: PCT/WO93/15196
FILING DATE: 25-JAN-1993
PUBLICATION DATE: 05-AUG-1993
RELEVANT RESIDUES IN SEQ ID NO:
JS-08-308-883-1

AUTHORS: L. Hansson et al
TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use Thereof
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER: PCT/WO93/15196
FILING DATE: 25-JAN-1993
PUBLICATION DATE: 05-AUG-1993
RELEVANT RESIDUES IN SEQ ID NO:
S-08-730-163-1

Query Match 12.8%; Score 52; DB 1; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.013;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
Y 299 TTCGAGCCATCTGAATAATTTGTAATCTTAACACAGATGCAATAGTTTAATAAATTT 358
b 741 TTCATGCCACATTCATATTTTGGTCTTGCACATAAAGCCCACTGATTCGCAAAAAA 800
Y 359 ATACTTAACCTTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 406
b 801 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 848

RESULT 14
S-08-256-799-1
Sequence 1, Application US/08256799
Patent No. 6222094
GENERAL INFORMATION:
APPLICANT: HANSSON, Lennart
APPLICANT: STROEMOVIST, Mats
APPLICANT: BERGSTROEM, Sven
APPLICANT: HERNELL, Olle
APPLICANT: TOERNELL, Jan
TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS FOR
TITLE OF INVENTION: OBTAINING THE PROTEIN AND USE THEREOF
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/256,799
FILING DATE: 06-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK 88/92
FILING DATE: 23-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REFERENCE/DOCKET NUMBER: 28,005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 45..593
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 45..593
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 45..104
FEATURE:
NAME/KEY: 5'UTR
LOCATION: 13..44
FEATURE:
NAME/KEY: 3'UTR
LOCATION: 594..848
US-08-256-799-1
Query Match 12.8%; Score 52; DB 3; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.013;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 299 TTCGAGCCATCTGAATAATTTGTAATCTTAACACAGATGCAATAGTTTAATAAATTT 358
Db 741 TTCATGCCACATTCATATTTTGGTCTTGCACATAAAGCCCACTGATTCGCAAAAAA 800
QY 359 ATACTTAACCTTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 406
Db 801 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 848

RESULT 15
US-08-462-437-1
Sequence 1, Application US/08462437
Patent No. 6232094
GENERAL INFORMATION:
APPLICANT: HANSSON, Lennart
APPLICANT: STROEMOVIST, Mats
APPLICANT: BERGSTROEM, Sven
APPLICANT: HERNELL, Olle
APPLICANT: TOERNELL, Jan
TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS
TITLE OF INVENTION: FOR OBTAINING THE PROTEIN AND USE THEREOF
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,437
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK 88/92
FILING DATE: 23-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REFERENCE/DOCKET NUMBER: 28,005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:

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LENGTH: 857 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
  NAME/KEY: CDS
  LOCATION: 45..593
FEATURE:
  NAME/KEY: mat_peptide
  LOCATION: 45..593
FEATURE:
  NAME/KEY: sig_peptide
  LOCATION: 45..104
FEATURE:
  NAME/KEY: 5'UTR
  LOCATION: 13..44
FEATURE:
  NAME/KEY: 3'UTR
  LOCATION: 594..848

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JS-08-462-437-1

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Query Match          12.8%; Score 52; DB 3; Length 857;
Best Local Similarity 67.6%; Pred No. 0.013;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

>Y 299 TTCGAGCCATCTGAATTAATTTTGTATCTTAACAACAGATGCAATAGTTTAAATAAACTT 358
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>B 741 TTCATGCCACATTCATATTTTGTATCTTGCACAAATAAGCCAACTGATTGCAAAAAAAA 800

>Y 359 ATACTTAACTTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 406
    || || || || || || || || || || || || || || || || || || || ||
>B 801 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 848

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search completed: October 16, 2003, 17:48:28
 job time : 72 secs